

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Quint, Wilhelmus  
Van Doorn, Leendert
- (ii) TITLE OF INVENTION: Probes, methods and kits for detection and typing of *Helicobacter pylori* nucleic acids in biological samples.
- (iii) NUMBER OF SEQUENCES: 280
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Knobbe, Martens, Olson & Bear, LLP
  - (B) STREET: 620 Newport Center Drive, 16th Floor
  - (C) CITY: Newport Beach
  - (D) STATE: CA
  - (E) COUNTRY: USA
  - (F) ZIP: 92660
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Altman, Daniel E.
  - (B) REGISTRATION NUMBER: 34,115
  - (C) REFERENCE/DOCKET NUMBER: INN0G2.001APC
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (949) 760-0404
  - (B) TELEFAX: (949) 760-9395
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: EP96/870131.8
  - (B) FILING DATE: 16-OCT-1996
- (A) APPLICATION NUMBER: PCT/EP97/05614
- (B) FILING DATE: 10-OCT-1997

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GTTGATAACG CTGTCGCTTC

20

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGAGCRTTRG TCAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCTTTAGTAG GAGCRTTRGT C

21

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGAGCGTTGA TTAGYKCCAT

20

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GTTTTAGCAG GAGCGTTGA

19

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GCTAAYACGC CAAAYGATCC

20

(2) INFORMATION FOR SEQ ID NO: 7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GATCCCATAAC ACAGCGAGAG

20

(2) INFORMATION FOR SEQ ID NO: 8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

TTGATACGGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GGGTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

ACGAATTAA GAGTGAATGG C

21

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AGAGCGATAA CGGGCTAAAC A

21

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

TTGACCAACA ACCACAAACC GAAG

24

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 22 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CTTCCCTTAA TTGCGAGATT CC

22

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CCTGARACCG TTCCTACAGC

20

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GTGGATGCGYC ATACRGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 16:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

RTGAGCTTGT TGATATTGAC

20

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 20 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

CGTCAAAATA ATTCCAAGGG

20

(2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

CAACAACCAC AAACCGAAG

19

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GATTGGTTTT TGATCAGGAT C

21

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

GATAAGAAYG ATAGGGATAA

20

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

AATACTGATT CTTTTTGG

18

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GTGGATGCC ATACGGCTAA

20

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GTGGATGCTC ATACAGCTWA

20

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GTGGATGCC ATACGATCAA

20

(2) INFORMATION FOR SEQ ID NO: 26:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GCGAGCGCTC ATACGGTCAA

20

(2) INFORMATION FOR SEQ ID NO: 27:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GGATTTTGA TCGCTTATT

20

(2) INFORMATION FOR SEQ ID NO: 28:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GGGYTATTGG TYAGCATCAC

20

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GCTTAGTRG GGYTATTGGT

20

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTGATACKGG TAATGGTGG

19

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

KG GTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

KG GTAATGGT GGTTTCAACA

20

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

AGAGCGATAA YGGKCTAAC A

21

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

AGGGTAGAAA TGGTATCGAC A

21

(2) INFORMATION FOR SEQ ID NO: 35:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

CATGCYGCCT TCTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 36:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CATGCCGCCT TTTTCACRAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 37:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

CATGCCGCTC TTTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 38:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CATGCCGCCT TTTTTACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 39:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

AGTCGCGCYT TTTTYACAAC CGT

23

(2) INFORMATION FOR SEQ ID NO: 40:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 184 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTA AAACAAGCCG AAGAAGCCAA	180
TAAA	184

(2) INFORMATION FOR SEQ ID NO: 41:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 199 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

TCGCCCTCTN GTTTCTCTCG CTTTAGTAGN AGCATTNGTC AGCATCACAC CGCAACANAG	60
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TCATGCCGCC	TTTTCACAA	CCGTNATCAT	TCCAGCCATT	GTTGGGGGTA	TNGCTACAGG	120
CACCGCTGTA	GGAACGGTCT	CAGGGCTTCT	TAGTTGGGA	CTAAAACAAG	CCGAAGAAGC	180
CAATAAAACC	CCAGATAAA					199

(2) INFORMATION FOR SEQ ID NO: 42:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 227 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GAATGCCCT	YTGGTTCTC	TTGCTTAGT	AGGAGCATTG	RTTAGYRYCA	YACCGCAACA	60
AAGTCATGCC	GCCTTTTYA	CRACCGTGAT	CATTCCAGCC	ATTGTTGGRG	GTATCGCTAC	120
AGGCACTGCT	GTAGGAACGG	TCTCAGGGCT	TCTTAGTTGG	GGRCTCAAAC	AAGCCGAAGA	180
AGCSAATAAA	ACCCRGATA	AACCGATAA	AGTTTGGCGC	ATTCAAG		227

(2) INFORMATION FOR SEQ ID NO: 43:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 176 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

GCCCTTTAGT	TTCTCTCGCT	TTAGTGGGTT	TATTGGTCAG	CATCACACCA	AAAAAAAGTC	60
ATGCCGCCTT	TTTCACAACC	GTGATCATTC	CAGCCATTGT	TGGAGGTATC	GCTACAGGTG	120
CTGCTGTAGG	AACGGTCTCA	GGGCTCTTG	GTTGGGGCT	CAAACAAGCC	GAAGAA	176

(2) INFORMATION FOR SEQ ID NO: 44:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

GCCCTCTGGT TTCTCTCGCT TTAGTAGGAG CATTGGTCAG CATCACACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACAAACC GTGATCATTC CAGCCATTGT TGGAGGTATC GCTACAGGCG	120
CTGCTGTAGG AACGGTCTCA GGGCTTCTTA GCTGGGGCT CAAACAAGCC GAAGAAGCCA	180
ATAAA	185

(2) INFORMATION FOR SEQ ID NO: 45:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 204 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

AATGCCCTC TGGTTCTCT CGCTTAGTA GGAGCATTGG TCAGCATCAC ACCGCAACAA	60
AGTCATGCCG CCTTTTAC AACCGTGATC ATTCCAGCCA TTGTTGGAGG TATCGCTACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAAG CCCCGGACAA ACCC	204

(2) INFORMATION FOR SEQ ID NO: 46:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

GAATCGCCCT TTAGTTCTC TTGCTTTAGT AGGAGCATTG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TTTCAGGGCT TCTTGGCTGG GGGCTAAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 47:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

CAATCGCCCT CTAGTTCTC TCGCTTTAGT AGGAGCATTG GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GTATCGCTAC	120
AGGCGCTGCT GTAGGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCGGACA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 48:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 207 base pairs  
(B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

CAATGCCCT CTGGTTCTC TTGCTTAGT AGGAGCGTTA GTCAGCATCA CACCGCAACA	60
AAGTCATGCC GCCTTTCA CAACCGTGAT CATTCCAGCC ATTGTTGGGG GGATCGCTAC	120
AGGCCTGCT GTAGGAACGG TCTCAGGGCT TCTTAGCTGG GGGCTCAAAC AAGCCGAAGA	180
AGCCAATAAA ACCCCAGATA AACCCGA	207

(2) INFORMATION FOR SEQ ID NO: 49:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 176 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

CCCTTAGTT TCTCTGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTTTCAG GGCTCTTAG CTGGGGCTC AAACAAGCCG AAGAAG	176

(2) INFORMATION FOR SEQ ID NO: 50:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

CCCTTTAGTT TCTCCTGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCYG AASAAGCSAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 51:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 193 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

CTTGAGTTTC TCTTGTTTA GCAGGAGCGT TGATTAGCGC CATACCGCAA CAAAGTCATG	60
CCGCCTTTTG CACGACCGTG ATCATTCCAG CCATTGTTGG GGGTATCGCT ACAGGCACCG	120
CTGTAGGAAC GGTTTCAGGG CTTCTTAGCT GGGGGCTCAA ACAAGCCGAA GAAGCCAATA	180
AAACCCCAGA TAA	193

(2) INFORMATION FOR SEQ ID NO: 52:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

GCCCTTAGT TTCTCTCGTT TTAGCAGGAG CGTTGATTAG CTCCATACCG CAACAAAGTC	60
ATGCCGCCTT TTTCACAAACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTAGG AACGGTTCA GGGCTTCTTA GCTGGGGCT CAAACAAGCC GAACAAGCCA	180
ATAAAGCCCC GGACAA	196

(2) INFORMATION FOR SEQ ID NO: 53:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 131 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

AATCGCCCTT TAGTTCTCT TGTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAACAA	60
AGTCATGCCG CCTTTTCAC GACCGTNATC ATTCCAGCCA TTGTTNNNNNG TATCGCTACA	120
GGCACCGCTG T	131

(2) INFORMATION FOR SEQ ID NO: 54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

CTACGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAACAA 60  
AGTCATGCCG CCTTTTCAC AACCGTGATC ATTCCAGCCA TTGTTGGGGG CATCGCTTCA 120  
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA 180  
GCGAA 185

(2) INFORMATION FOR SEQ ID NO: 55:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 201 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

AATCGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCGCCAT ACCGCAAGAG 60  
AGTCATGCCG CCTTTTCAC AACCGTNATC ATTCCAGCCA TTGTTGGGGG TATCGCTACA 120  
GGCACCGCTG TAGGAACGGT CTNAGGGCTT YTTAGTTGGG GACTNWAACA AGCCGAAGAA 180  
GCCAATAAAA CCCCCGGATAA A 201

(2) INFORMATION FOR SEQ ID NO: 56:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 187 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

CCCTTTAGTT TCTCTCGTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA 60

TGCCGCCTT TTTACAACCG TNATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGYGC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG ACAAGCCAA	180
TAAAGCC	187

(2) INFORMATION FOR SEQ ID NO: 57:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

CCCTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
TGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGGGCTC AAACAAGCCG AAGAAGCGAA	180
TAAAACC	187

(2) INFORMATION FOR SEQ ID NO: 58:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CCCTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGGTATCG CTACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG CTGGGACTC AAACAAGCCG AAGAAGCGAA	180

TAAAACC

187

(2) INFORMATION FOR SEQ ID NO: 59:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

CCCTTTAGTT TCTCTCGTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA	60
TGCCGCCTTT TTCACNACCG TNATCATTCC AGCCATTGTT GGGGGTATCG CCACAGGCAC	120
CGCTGTAGGA ACGGTCTCAG GGCTTCTTAG TTGGGGACTN AAACAAGCCG AAGAAGCGAA	180
TAAAA	185

(2) INFORMATION FOR SEQ ID NO: 60:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 199 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

CAGGAGCGTT GATTAGTGCC ATACCGCAAG AGAGTCATGC CGCCTTTTC ACGACCGTGA	60
TCATTCCAGC CATTGTTGGG GGTATGCCA CAGGCACCGC TGTAGGAACG GTCTCAGGGC	120
TTCTTAGTTG GGGACTCAAA CAAGCCGAAG AAGCGAATAA AACCCAGTA TAAACCCGAT	180
AAAGTTTGGC GCATTCAAG	199

(2) INFORMATION FOR SEQ ID NO: 61:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 188 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

TTTCTCTCGT TTTAGCAGGA GCGTTGATTA GCTCCATACC GCAAGAGAGT CATGCCGCCT	60
TTTCACAAC CGTGATCATT CCAGCCATTG TTGGGGTAT CGCTACAGGC GCTGCTGTAG	120
GAACGGTCTC AGGGCTTCTT AGCTGGGGC TCAAACAAGC CGAAGAAGCG AATAAAACCC	180
CAGATAAA	188

(2) INFORMATION FOR SEQ ID NO: 62:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 206 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

GAATGCCCT TTAGTTCTC TCGTTTAGC AGGAGCGTTG ATTAGTGCCA TACCGCAAGA	60
GAGTCATGCC GCCTTTCA CGACCGTGAT CATTCCAGCC ATTGTTGGG GTATGCCAC	120
AGGCACCGCT GTAGGAACGG TCTCAGGGCT TCTTAGTTGG GGACTCAAAC AAGCCGAAGA	180
AGCGAATAAA ACCCCAGTAT AAACCC	206

(2) INFORMATION FOR SEQ ID NO: 63:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

AATGCCCTT TGGTTCTCT CGTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTCAC AACCGTGMTC ATTCCAGCCA TTGTTGGGGG TATGGCTACA	120
GGCGCTGCTG TAGGAACGGT CTNAGGGCTT YTTAGCTGGG GGCTNWAACA AGCCGAAGAA	180
GCGAATAAAA CCCCAGATAA ACCCGA	206

(2) INFORMATION FOR SEQ ID NO: 64:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

AATGCCCTA TTATTCTCT CGTTTAGCA GGAGCGTTGA TTAGCTCCAT ACCGCAAGAA	60
AGTCATGCCG CCTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGGG TATGCCACA	120
GGCGCTGCTG TAGGAACGGT CTCAGGGCTT CTTAGCTGGG GGCTCAAACA AGCCGAACAA	180
GCCAATAAG CCCCAGACAA A	201

(2) INFORMATION FOR SEQ ID NO: 65:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 197 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

GCCCTTAGT TTCTCTGTT TTAGCAGGAG CGTTGATTAG TGCCATACCG CAAGAGAGCT	60
ATGCCGCCTT TTTCACAACC GTGATCATTC CAGCCATTGT TGGGGGTATC GCTACAGGCA	120
CCGCTGTAGG AACGGTCTCA GGGCTTCTTA GTTGGGGACT CAAACAAGCC GAAGAAGCGA	180
ATAAAACCCC AGATAAA	197

(2) INFORMATION FOR SEQ ID NO: 66:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 201 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

AATGCCCTT TAGTTCTCT CGTTTAGCA GGAGCGTTA TTAGGCCAT ACCGCAAGAG	60
AGTCATGCCG CCTTTTCAC GACCGTGATC ATTCCAGCCA TTGTTGGGG TATGCCACA	120
GGCACCGCTG TAGGAACGGT CTCAGGGCTT CTTAGTTGGG GACTCAAACA AGCCGAAGAA	180
CGAATAAAA CCCCCAGATAA A	201

(2) INFORMATION FOR SEQ ID NO: 67:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 195 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

GTGGGGGTGT	TAATGGGCAC	CGAACTAGGG	GCTAATACGC	CAAACGATCC	CATACACAGC	60
GAGAGTCGCG	CCTTTTCAC	AACCGTGATC	ATTCCAGCCA	TTGTTGGGG	TATGCCACA	120
GGCACTGCTG	TAGGAACGGT	CTCAGGGCTT	CTTAGTTGGG	GACTCAAACA	AGCCGAAGAA	180
GCGAATAAAA	CCCCA					195

(2) INFORMATION FOR SEQ ID NO: 68:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

AGTGGGGGTG	TTAATGGCA	CTGAACTAGG	GGCTAACACG	CCAAACGATC	CCATACACAG	60
CGAGAGTCGC	GCCTTTTTA	CAACCGTGAT	CATTCCAGCC	ATTGTTGGGG	GTATCGCTAC	120
AGGCGCTGCT	GTAGGAACGG	TTTCAGGGCT	TCTTAGCTGG	GGGCTCAAAC	AAGCCGAACA	180
AGCCAATAAA	GCCCCG					196

(2) INFORMATION FOR SEQ ID NO: 69:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 196 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

TAGTGGGGC ATTAATGAGT ACCGAAC TAG GGGCTAACAC GCCAAATGAT CCCATACACA	60
CCGAGAGTCG CGCCTTTT ACAACCGTGA TCATTCCAGC CATTGTTGGG GGTATCGCTA	120
CAGGCGCTGC TGTAGGAACG GTCTCAGGGC TTCTTAGTCG GGGGCTCAA CAAGCCGAAC	180
AAGCCAATAA AGCCCC	196

(2) INFORMATION FOR SEQ ID NO: 70:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 232 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

CAATCGCCCT ATTATCTCTC TCGCTCTAGT GGGGGTGT TA ATGGGTACCG AACTAGGGC	60
TAACACGCCA AACGATCCCA TACACAGCGA GAGTCGCGCC TTTTTACAA CGTGATCAT	120
TCCAGCCATT GTTGGGGGTA TCGCTACAGG CGCTGCTGTA GGAACGGTTT CAGGGCTTCT	180
TAGCTGGGGG CTCAAACAAG CCGAACAAAGC CAATAAAGCC CCCGACAAAC CC	232

(2) INFORMATION FOR SEQ ID NO: 71:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 228 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

AATGCCCTA TTATCTCTCGCTCTAGTG GGGTGTAA TGGTACCGA ACTAGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTCACAAAC CGTGATCATT	120
CCAGCCATTG TTGGAGGTAT CGCTACAGGT GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAAGCC AATAAAGCCC CGGACAAA	228

(2) INFORMATION FOR SEQ ID NO: 72:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 228 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

AATGCCCTA TTATCTCTCGCTTAGTG GGGTGTAA TGGCACCGA ACTAGGGCT	60
AACACGCCAA ACGATCCCAT ACACAGCGAG AGTCGCGCCT TTTCACAAAC CGTGATCATT	120
CCAGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAAGCC AATAAAGCCC CGGATAAA	228

(2) INFORMATION FOR SEQ ID NO: 73:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 233 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

AATCGCCCTA TTATCTCTCT CGCTTTAGAG GGGGTGTTAA TAGGCACCGA ACTAGGGGCT	60
AACACGCCAA ATGATCCCCT ACACAGCGAG AGTCGCGCCT TTTTACAAC CGTTATTATT	120
CCAGCCATTG TTGGGGGTAT CGCTACAGGC GCTGCTGTAG GAACGGTCTC AGGGCTTCTT	180
AGCTGGGGGC TCAAACAAGC CGAACAAAGCC AATAAAGCCC CGGATAAAACC CGA	233

(2) INFORMATION FOR SEQ ID NO: 74:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATAACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAAATGAA TTGATTGTTA AAACCAATGG	180
TGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGTGTTA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 75:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATTACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACTTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 76:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACGGTA ATGGTGGTTT	60
CAACACCTTG GATTTAGTG GCGTTACAGA CAAAGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCATTA AAAACTTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTAGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 77:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

TTTAAAGGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCAGTGTAA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 78:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

TTTAAAAGTG GATGCTCATA CAGCTAATTT TAAAGGTATT GATACGGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGCTA AAAACTTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCAGTGTAA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 79:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

TTTAAAGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACTGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAAA CAAAGTCAAT ATCAACAAAGC TCATTACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAATGAA TTGTTGGTTA AGATTAATGG	180
GGTAGTGTG GGGGAATACA CTTATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTATTCT GGCAGTGTAA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 80:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

TTTAAAGGTG GATGCTCATA CAGCTAATT TAAAGGTATT GATACTGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAAGC TCATCACGGC	120
TTCCACTAAT GTGGCCGTTA AAAACAACAA CATTAATGAA TTGTTGGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACAG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 81:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

TTTAAAGTG GATGCTCAT AAGCTAATT TAAAGGTATT GATAACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAAGC TCATTACGGC	120
TTCCACTAAT GTAGCCGTTA AAAACTCAA CATTAATGAA TTGTTGGTTA AGACCAATGG	180
GGTGAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGCAAGTCAAT CGCGCATCAA	240
CACCGTGCCT TTGGAAACTG GCACTAGGTC AATCTTTCT GGGGGTGTCA AATTAAAAG	300

(2) INFORMATION FOR SEQ ID NO: 82:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 300 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

TTTAAAGGTG GATGCTCAT AAGCTAATT TAAAGGTATT GATAACGGTA ATGGTGGTTT	60
CAACACCTTA GATTTAGTG GTGTTACAGG TAAGGTCAAT ATCAACAAAGC TCATCACAGC	120
TTCCACTAAT GTGGCCGTTA AAAACTCAA CATTAATGAA TTGATTGTTA AAACCAATGG	180
GATAAGTGTG GGGGAATACA CTCATTTAG CGAAGATATA GGAAAGTCAAT CGCGCATCAA	240
TACCGTGCCT TTGGAAACTG GCACTAGATC AATCTTTCT GGGGGTGTCA AATTAAAGG	300

(2) INFORMATION FOR SEQ ID NO: 83:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

TTTAAGAGTG GACGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GCAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGCGT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACGTTA AGGAATTGGT	240
GGTTACAACC CGTGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCCA	300
TAAGTCTCGC ATTGGTGTG TGAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 84:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

CTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GCAAGAGCGA	120
TAACGGGCTA AACACTAGTG CTTTGGATTT TAGCGCGT ACAGATAAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCCA	300
TAAGTCTCGC ATTGGTGTG TTAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGG	360

CGTTACTTTT AAAAG

375

(2) INFORMATION FOR SEQ ID NO: 85:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 374 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

TTTAAGAGTG GATGCTCATA CAGCTTATTG TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTACCA CTTGGATTG CAGCGCGTT ACAGATAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTAGT	240
GGTTACAACC CGAGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGCTGCAC ATTGGTGTG TGAGTTGCA AACGGATAT AGCCCAGCCT ATTCTGGGGG	360
GCTTACTTTT AAAG	374

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

TTTAAGAGTG GATGCTCATA CAGCTTATTG TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
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GAATTAAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAAGAGCGA	120
TAACGGGCTA AACACTAGCT CTTGGATT CAGTGGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGCGTTCAGA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA	300
TAAGTCTCGC ATTGGTGTGCG TTAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 87:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 365 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC GAATTAAAGA	60
GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAAGAGCGA TAACGGGCTA	120
AACACTAGCG CTTTGGATT YAGCGGCAGT ACAGAYAAAG TCAATATCAA CAAGCTCACT	180
ACATCTGCCA CTAATGTGAA CGTTAAAAAC TTTGACATTA AGGAATTAGT GGTTACAACC	240
CGAGTTCAA AAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCGA TAAGTCTCGC	300
ATTGGTGTGCG TTAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG CGTTACTTTT	360
AAAAG	365

(2) INFORMATION FOR SEQ ID NO: 88:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

TTTAAGAGGG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATTTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG YTTTGGATTT TAGCGGCCTT ACAGAYAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CRTTAAAAAC TTTGAYATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TMAGTCTCGC ATTGGTGTG TGAGTTGCA AACGGGATAT AGCCCRGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 89:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 375 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

TTTAAGCGTG GATGCTCATA CAGCTTATTT TAATGGTAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA CAAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT CAGCGGCCTT ACAGATAAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAACGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240
GGTTACAACC CGAGTTCAAA GTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGCAGA	300
TAAGTCTCGC ATTGGTGTG TGAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 90:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

TTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAAA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCCA GTAAGAGCGA	120
TAATGGTCTA AACACTAGTG CTTTGGATTT GAGCGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACAGCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTAGT	240
GGTTACGACC CGTGTTCAGA GTTTTGGGCA ATACACTATT TTTGGCGAAA ATATAGGAGA	300
TCAATCGCGC ATTGGTGTGCG TTAGTTGCA AACTGGCTAT AGCCCGGCCT ATTCTGGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 91:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

CTTAAGAGTG GATGCTCATA CAGCTTATTT TAATGGCAAT ATTTATCTGG GAAAATCCAC	60
GAATTTAAGA GTGAATGGCC ATAGCGCTCA TTTTAAAAAT ATTGATGCTA GTAAGAGCGA	120
TAACGGGCTA AACACTAGCG CTTTGGATTT TAGCGCGTT ACAGACAAAG TCAATATCAA	180
CAAGCTCACT ACATCTGCCA CTAATGTGAA CATTAAAAAC TTTGACATTA AGGAATTGGT	240

GGTTACAACC CGAGTTCAAA GTTTGGCA ATACACTATT TTTGGCGAAA ATATAGGC	300
TAAGTCTCGC ATTGGTGTG TGAGTTGCA AACGGGATAT AGCCCGGCCT ATTCTGGGG	360
CGTTACTTTT AAAAG	375

(2) INFORMATION FOR SEQ ID NO: 92:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 449 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

ATGACTAACG AAACCATTAA CCAACAACCA CAAAGCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAA AACCACCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 93:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 449 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 94:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

ATGGCTAACG AAACTATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 95:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTTT CAGACTTTAT CAATAAGAGC AATGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTCATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 96:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTTGATGGA	180

ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAAACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCAAAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGTTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGACCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGGCAAGC TTTTGATAGA	180
ATCTCACAAT TAAGGGAGGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AACGATTTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 98:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAAGTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATTAT TGATAAGAAC GATAGGGATA ACAGGGCAAGC TTTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATATTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AATGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ATGCTGTCGC TTCATACGAT	120
TCTGATCAAA AACCAATCAT TGATAAGAAC GATAGGGATA ACAGGGCAAGC TTTTGATAGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AACGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAATGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 100:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

ATGACTAACG	AAACTATTGA	CCAACAACCA	CAAACCGAAG	CGGCTTTAA	CCCGCAGCAA	60
TTTATTAATA	ATCTTCAGGT	AGCTTTCTT	AAGCTTGATA	ACGCTGTCGC	TTCATTGAT	120
CCTGATCAAA	AACCAATCGT	TGATAAGAAT	GATAGGGATA	ACAGGCAAGC	TTTGATGGA	180
ATCTCGCAAT	TAAGGGAAGA	ATACTCCAAT	AAAGCGATCA	AAAATCCTAC	CAAAAAGAAT	240
CAGTATTTT	CAGACTTTAT	CAATAAGAGC	AATGATTAA	TCAACAAAGA	CGCTCTCATT	300
GATGTAGAAT	CTTCCACAAA	GAGCTTCAG	AAATTTGGGG	ATCAGCGTTA	CCGAATTTTC	360
ACAAGTTGGG	TGTCCCATCA	AAACGATCCG	TCTAAAATCA	ACACCCGATC	GATCCAAAAT	420
TTTATGGAAA	ATATCATACA	ACCCCCTAT				449

(2) INFORMATION FOR SEQ ID NO: 101:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

ATGACTAACG	AAACTATTGA	CCAACAACCA	CAAACGTGAAG	CGGCTTTAA	CCCGCAGCAA	60
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TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATAACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

ATGACTAACG AAACTATTAA CCAACAGCCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATTTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAGGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCGAATTTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATAACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 103:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ATGCTGTTGC TTCATTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ACAGGCAAGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CGATAAGAGC AACGATTAA TCAACAAAGA CAATCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTC	360
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAAATCA ACACCCGATC GATCCGAAAT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

ATGACTAACG AAACCATTAA CCAACAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTCTT AAGCTTGATA ACGCTGTCGC TTCATACGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAC GATAGGGATA ATAGGCAAGC TTTGATGGA	180
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTAC CAAAAAGAAT	240
CAGTATTTT CAGACTTTAT CAATAGAGC AATGATTAA TCAACAAAGA CGCTCTCATT	300
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTTGGGG ATCAGCGTTA CCGAATTTC	360

ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT 420  
TTCATGGAAA ATATCATACA ACCCCCTAT 449

(2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

ATGACTAACG AAACTATTGA TCAACAAACCA CGAACCGAAG CGGCTTTAA CCCGCAGCAA 60  
TTTATCAATA ATCTTCAAGT AGCTTTCTT AAAGTTGATA ACGTTGTCGC TTCATTTGAT 120  
CCTAATCAAA AACCAATCGT TGATAAGAAC GATAAGGATA ACAGGCAAGC TTTGATGGA 180  
ATCTCGCAAT TAAGGGAAGA ATACTCCAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT 240  
CAGTATTTT CAGACTTTAT CAATAAGAGC AATGATCTAA TCAACAAAGA CAATCTCATT 300  
GATGTAGAAT CTTCCACAAA GAGCTTCAG AAATTGGGG ATCAGCGTTA CCAAATTTTC 360  
ACAAGTTGGG TGTCCCATCA AAACGATCCG TCTAAATCA ACACCCGATC GATCCGAAAT 420  
TTCATGGAAA ATATCATACA ACCCCCTAT 449

(2) INFORMATION FOR SEQ ID NO: 106:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATGACTAACG AAACCATTAA CCAACAAACCA CAAACCGAAG CGGCTTTAA CCCGCAGCAA	60
TTTATCAATA ATCTTCAAGT GGCTTTATT AAAGTTGATA ATGTTGTCGC TTCATTGAT	120
CCTGATCAAA AACCAATCGT TGATAAGAAT GATAGGGATA ATAGGCAAGC TTTTGAGAAA	180
ATCTCGCAGC TAAGGGAGGA ATTGCTAAT AAAGCGATCA AAAATCCTGC CAAAAAGAAT	240
CAGTATTTT CAAGCTTAT CAGTAAGAGC AGTGATTTAA TCAACAAAGA CAGTCTCATT	300
GATACAGGTT CTTCCATAAA GAGCTTCAG AAATTGGGA CTCAGCGTTA CCAAATTTT	360
ATGAATTGGG TGTCCCATCA AAAAGATCCA TCTAAAATCA ACACCCAAAA AATCCGAGGT	420
TTTATGGAAA ATATCATACA ACCCCCTAT	449

(2) INFORMATION FOR SEQ ID NO: 107:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

ATGACTAACG AAACTATTGA TCAAACAAAGA ACACCAGACC AAACACAAAG CAAACAGCT	60
TTTGATCCGC AACAAATTAT CAATAATATT CAAGTGGCTT TTCTTAAAGT TGATAACGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAGCTAAGG GAGGAATTG CTAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTCAAGC TTTATCAGTA AGAGCAGTGA TTTAGTCAAC	300
AAAGACAGTC TCATTGATAC AGGTTCTTCC ATAAAGAGCT TTCAGAAATT TGGGACTCAG	360
CGTTACCAAA TTTTATGAA TTGGGTGTCC CATCAAAAG ATCCATCTAA AATCAACACC	420
CAAAAAATCC AAGATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

ATGACTAATG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGCG AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTCTCTTCAT TTGATCCTGA TCAAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTCC GTAGAGACCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAA TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CGACAAATCC GAAATTATAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA CCAAACGGAT	60
TTTGTTCGCG AACGATTAT CAATAATCTT CAAGTAGCTT TCCTTAAAGT TGATAGCGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240

CCTGCCAAAA AGAACATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCT GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAG CCAAACAGAT	60
TTTGTCCGC AACGATTAT CAATAATCTT CAAGTAGCTT TTCTTAAAGT TGATAACGCT	120
GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCTGCCAAAA AGAACATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 111:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATGACGCT	120
GTCGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAACGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGACCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGAGAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC	420
CAACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 464 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAGATC AAACACCAAA TCAAACAGAT	60
TTTGTTCGGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATGACGCT	120
GTCGCTTCAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAACGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCTGCCAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CAACAAATCC AAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 113:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATGACTAACG AAACCATTGA TCAAACAACA ACACCAAGATC AAACACTAAA CCAAACGGAT	60
TTTGTTCGGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATTAAAGT TGATAACGCT	120
GTCGCTTAT TTGATCCCGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG	180
CAAGCTTTG AGAAAATCTC GCAACTAAGG GAAGAATACG CCAATAAAGC GATCAAAAT	240
CCCACCAAAA AGAATCAGTA TTTTCAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC	300
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG	360
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTCA AATCAACACC	420
CGACAAATCC GAAATTTAT GGAAAATATC ATACAACCCC CTAT	464

(2) INFORMATION FOR SEQ ID NO: 114:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 464 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATGACTAACG AAACCATTGA TCAAACAATA ACACCAAGATC AAACACCAAA CCAAACGGAT	60
TTTGTTCGGC AACGATTAT CAATAATCTT CAAGTAGCTT TTATCAAAGT TGATAACGCT	120

GTCGCTTCAT TTGATCCTGA TCAAAAACCA ATCGTTGATA AGAATGATAG GGATAACAGG 180  
CAAGCTTTG AGAAAATCTC GCAATTAAGG GAAGAATAACG CCAATAAAGC GATCAAAAT 240  
CCTGCCAAAA AGAATCAGTA TTTTTAGAC TTTATCAATA AGAGCAATGA TTTGATCAAC 300  
AAAGACAATC TCATTGCTGT AGATTCTTCC GTAGATAGCT TTAAGAAATT TGGGGATCAG 360  
CGTTACCAAA TTTTACGAG TTGGGTGTCC CTTCAAAAAG ATCCGTCTAA AATCAACACC 420  
CAACAAATCC GAAATTATATC GGAAAATATC ATACAACCCC CTAT 464

(2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC 60  
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC 120  
CATTGTTGGG GG 132

(2) INFORMATION FOR SEQ ID NO: 116:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGT ACCGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 117:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 118:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 132 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATGGGC ACCGAACTAG GGGCTAATAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACTGAACTAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCCTATTATC TCTCTCGCTC TAGTGGGGGT GTTAATGGGC ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACYGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

CCCTATTATC TCTCTCGCTT TAGTGGGGGT RTTAATGGGC ACCGAAC TAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

CCCTATTATT TCTCTCGCTT TAGTGGGGGT GTTAATGGGC ACCGAAC TAG GGGCTAACAC	60
GCCAAACGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CCCTATTATC TCTCTCGCTC TAGTGGGGC ATTAATGAGT ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTT ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

CCCTATTATC TCTCTCGCTT TAGTGGGGT ATTAATAGGC ACCGAACTAG GGGCTAATAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG TGCTTTTTC ACAACCGTGA TCATTCCAGC	120
CATTGTTGGG GG	132

(2) INFORMATION FOR SEQ ID NO: 125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

CCCTATTATC TCTCTCGCTC TAGTGGGGT GTTAATAAGC ACCGAACTAG GGGCTAACAC	60
GCCAAATGAT CCCATACACA GCGAGAGTCG CGCCTTTTC ACAACGGGGA TCATTCCAGC	120

CATTGTTGGG GG

132

(2) INFORMATION FOR SEQ ID NO: 126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA	60
TGCTGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA	60
TGCTGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCTGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

CCCTCTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CCCTCTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC ADCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 131:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 132:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 133:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC GGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATTATCCC GGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 136:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60  
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGGAG 105

(2) INFORMATION FOR SEQ ID NO: 137:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)  
(iii) HYPOTHETICAL: NO  
(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

CCCTTAGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60  
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG 105

(2) INFORMATION FOR SEQ ID NO: 138:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

CCCTCTGGTA TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTC TTTACAACCG TGAATATTCC AGCMATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

CCCTCTGGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC GGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCMATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 141:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 142:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCHATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 143:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

CCCTCTGGTT TCTCTCGCTT TAGTGGGCT ATTGGTCAGC ATCACACCAC	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCYATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

CCCTCTGGTT TCTCTCGCTT TAGTGGGTT ATTGGTCAGC ATCACACCGC	60
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 145:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

CCCTTTAGTT TCTCTCGCTT TAGTGGGGTT ATTGGTTAGC ATCACACCGC AAAAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATTATTCC AGCCATTGGT TGGGG 105

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

CCCTCTGGTT TCTCTCGCTT TAGTGGGGCT ATTGGTCAGC ATCACACCCAC AAAAAAGTCA 60  
TGCCGCCTTC TTTACAACCG TGATCATTCC AGCCATCGTT CCCCC 105

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCCTTTAGTT TCTCCTGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAAAGTCA 60  
TGCCGCCTTT TTTACAACCG TAATCATTCC AGCTATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 150:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTTATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAAAGTTA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

CCCTATTATT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 154:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

CCCTTAGTT TCTCTCGTT TAGCAGNAGC GTTNATTAGT GCCATACCGC AANANAGTCA 60

TGCCGCCTTT TTCACNACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 155:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

CCCTTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 158:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 159:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

CCCTTTAGTT TCTCTGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

CCCTTTAGTT TCTCTGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

CCCTTGGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA 60  
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCVATTGTG GGGAG 105

(2) INFORMATION FOR SEQ ID NO: 162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60  
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

CCCTTTAGTT TCTCTCGTTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGGTTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGT GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC ARCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

CCCTTTAGTT TCTCTGTT TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TAATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

CCCTTTAGTT TCTCTTGTTC TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTCACGACCG TAATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

CCCTTTAGTT TCTCTCGTTC TAGCAGGAGC GTTGATTAGC GCCATACCGC AAGAGAGTCA 60

TGCCGCCTTT TTCACAAACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACACCCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 173:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CCCTTTGGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 174:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

CCCTTTAGTT TCTCTCGTT TAGCAGGAGC GTTGATTAGC TCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 175:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

CCCTTTAGTT TCTCTCGTTT TAGCANNAGC GTTGATTAGC RCCATACCGC AAGAGAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

CCCTTTAGTT TCTCTTGTTC TAGCAGGAGC GTTGATTAGC GCCATACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACGACCG TNATCATTCC AGCCATTGTT NNNNG	105

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

CCCTCTGGTT TCTCTGGTTT TAGCAGGAGC GTTGATTAGC ATCACACCAC AACAAAGTCA	60
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TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 178:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 179:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 180:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 181:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTTACAACCG TGATCATTCC AGCCATTGTT GGAGG	105

(2) INFORMATION FOR SEQ ID NO: 182:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

CCCTTTGGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
---	----

TGCCGCCTTT TTCACGACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC GTTAGTCAGC ATCACACCGC AACAAAGTCA

60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

CCCTCTAGTT TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA

60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTG GGGGG

105

(2) INFORMATION FOR SEQ ID NO: 185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

CCCTTTAGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA 60

TGCCGCCTTT TTCACAACCG TGATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

CCCTCTNGTT TCTCTCGCTT TAGTAGNAGC ATTNGTCAGC ATCACACCGC AACANAGTCA 60

TGCCGCCTTT TTCACAACCG TNATCATTCC AGCCATTGTT GGGGG 105

(2) INFORMATION FOR SEQ ID NO: 187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

CCCTCTGGTT TCTCTCGCTT TAGTAGGAGC GTTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT ATTACAACCG TGATCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 188:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 189:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

CCCTCTGGTT TCTCTTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 190:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 105 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

CCCTCTGGTT TCTCTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

CCCTCTGGTT TCTCTGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCTCTT TTTACAACCG TGATTATTCC AGCCATTGTG GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 105 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

CCCTYTGGTT TCTCTTGCTT TAGTAGGAGC ATTGRTTAGY RYCAYACCGC AACAAAGTCA	60
TGCCGCCTTT TTYACRACCG TGATCATTCC AGCCATTGTT GGRGG	105

(2) INFORMATION FOR SEQ ID NO: 193:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 105 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

CCCTATTATC TCTCTCGCTT TAGTAGGAGC ATTGGTCAGC ATCACACCGC AACAAAGTCA	60
TGCCGCCTTT TTCACAACCG TGTCATTCC AGCCATTGTT GGGGG	105

(2) INFORMATION FOR SEQ ID NO: 194:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCACTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAG AACTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300

CGCATTGGTG TCGTTAGTTT GCAAACTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 195:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGCGC AAAATATAGG CGATAAGTCG	300
CACATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 196:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
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AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 197:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 198:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GTGGATGCTC ATACAGCTTA TTTAATGGT AATATTATC TGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGG TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAACGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGG TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GCACTTGGG TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGG TATAGCCGG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 2 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

WC

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(2) INFORMATION FOR SEQ ID NO: 202:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAG AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAG AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 204:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 205:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTTATC TGGGAAAATC CACGAATTAA	60
--	----

AGAGTGAATG CCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 206:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

GTGGATGCTC ATACAGCTTA	TTTTAATGGC	AATATTATC	TGGGAAAATC	CACGAATT	60	
AGAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCAGTAAGAG	CGATAACGG	120
CTAAACACTA	GTGCTTGGA	TTTAGCGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCT	180
ACTACATCTG	CCACTAATGT	GAACATTA	AACTTGACA	TTAAGGAATT	AGTTGTTACA	240
ACCCGAGTTC	AAAGTTTGG	GCAATACACT	ATTTTGGCG	AAAATATAGG	CGATAAGTCT	300
CGCATTGGTG	TCGTTAGTTT	GCAAACGGGA	TATAGCCCAG	CCTATTCTGG	GGGC GTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 208:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

GTGGATGCTC ATACAGCTTA	TTTTAATGGC	AATATTATC	TGGGAAAATC	CACGAATT	60	
AAAGTGAATG	GCCATAGCGC	TCATTTAAA	AATATTGATG	CCAGTAAGAG	CGATAATGGT	120
CTAAACACTA	GCGCTTGGA	TTTAGCGGC	GTTACAGACA	AAGTCAATAT	CAACAAGCT	180
ACTACATCTG	CCACTAATGT	GAACATTA	AACTTGACA	TTAAGGAATT	AGTGGTTACA	240
ACCCGTGTT	AGAGTTTGG	GCAATACACT	ATTTTGGCG	AAAATATAGG	CGATAAGTCT	300
CGCATTGGTG	TCGTTAGTTT	GCAAATGGGA	TATAGCCCAG	CCTATTCTGG	GGGC GTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 209:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTTGTTACG	240
ACCCGTGTTCA AGAGTTTGG ACAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 210:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

GTGGATGCTC ATACAGCTAA CTTAATGGC AATATTATT TGGGAAAATC CACGAATTAA	60
AGGGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCTCTTGGA TTTCAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240

ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAATTATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAACACATA GTGCTTGGA TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 212:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

GTGGATGCC ATACGGCTAA CTTAATGGC AATATTATC TGGGAAAATC CACGAATT 60  
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTGGA TTTGAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 213:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT 60  
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAATGGT 120  
CTAAACACTA GTGCTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG 240  
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG AGATCAATCG 300  
CGCATTGGTG TCGTTAGTTT GCAAACGTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 214:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGG	120
CTAAACACTA GCGCTTGGG TTTGAGCGGC GTTACAAACA AGTCAATAT CAACAAGCT	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTAC	240
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACCTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATGTTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGG TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 216:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 217:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATGTTTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGG	120

CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA 240  
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTGAGTTT GCAAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 218:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT 60  
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGGG 120  
CTAAACACTA GCGCTTGGA TTTCAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACG TTAAGGAATT GGTGGTTACA 240  
ACCCGTGTC AGAGTTTGG GCAATACACT ATTTTGCG AAAATATAGG CGATAAGTCT 300  
CGCATTGGTG TCGTGAGTTT GCAAAACGGGA TATAGCCAG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGCAAGAG CGATAACGG	120
CTAAACACTA GCACTTGGG TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCT	180
ACTACAGCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 220:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGG TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGG TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 221:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GTGCTTGGA TTTAGCGGC GTTACAGATA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 222:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATT	60
AGATTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AGAGTTTGG GCAATACTCT ATTTTGGCG AAAATATAGG CGATAAGTCG	300

CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 223:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

GTGGACGCTC ATACAGCTTA TTTAATGGC AATATTATT TGGGAAAATC CACGAATTAA 60

AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG 120

CTAAACACTA GCACTTTGGA TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180

ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG 240

ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT 300

CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360

TT 362

(2) INFORMATION FOR SEQ ID NO: 224:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA 60

AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAACGGG	120
CTAAACATTA GCACTTGGT TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 225:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

GTGGATGCTC ATACAGCTTA TTTTAATGGC AATATTATC TGGGAAAATC CACGAATTG	60
AGAGTGAATG GCCATAACGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAAACACTA GCACTTGGT TTTGAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACG	240
ACCCGTGTTG AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG TGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 226:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATGTTTATT TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTGAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACG	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TGTGCCCGG CCTGTTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

GGGGATGCTC ATACAGCTTA TTTAATGGC AATATTTATT TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA GCGYTTGGA TTTAGCGGC GTTACAGAYA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACRTTAAA AACTTGAYA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATMAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCRG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 228:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACAAAGAG CGATAATGGT	120
ATAAACACTA GCACCTTGGA TTTGAGCGGC GTTACAGACA AGGTCAATAT CAACAAGCTC	180
ATTACAGCTT CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGTGTTCA AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 229:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

GTGGATGCTC ATACGGCTAA CTTTAATGGC AATATTATC TGGGAAAATC CACGAATTAA	60
AGAGTGAATG GCCATAGCGC TCATTTTAA AATATTGATG CCAGCAAGAG CGATAACGGG	120
CTAAACACTA GCACCTTGGA TTTCAGTGGC GTTACAGACA AAGTCAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGATA TTAAGGAATT GGTGGTTACA	240

ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 230:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

GTGGATGCTC ATACGGCTAA CTTAATGGC AATATTATT TGGGAAAATC CACGAATTG	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGGG	120
CTAACACTA GCGCTTGGA TTTAGCGGC GTTACAGACA AAGTTAATAT CAACAAGCTC	180
ACTACATCTG CCACTAATGT GAACGTTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGAGTTC AAAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCT	300
CGCATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCTG CTTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 231:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AGAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCAGTAAGAG CGATAACGG	120
CTAAACACTA CCACTTGGA TTTCAGCGC GTTACAGATA AAGTCAATAT CAACAAGCT	180
ACTACATCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT AGTGGTTACA	240
ACCCGAGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGCTG	300
CACATTGGTG TCGTGAGTTT GCAAACGGGA TATAGCCCAG CCTATTCTGG GGGCCTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 232:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CTAGTAAGAG CGATAACGG	120
CTAAACACTA GCGCTTGGA TTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCT	180
ACTACAGCTG CCACTAATGT GAACATTAAA AACTTGACA TTAAGGAATT GGTGGTTACA	240
ACCCGCGTTC AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATAAGTCG	300
CGCATTGGTG TCGTTAGTTT GCAAACGTGGC TATAGCCCAG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 233:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

ATGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGG	120
CTAAACACTA GCGCTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCT	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTAC	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GTGGATGCTC ATACAGCTTA TTTAATGGC AATATTATC TGGGAAAATC CACGAATT	60
AAAGTGAATG GCCATAGCGC TCATTTAAA AATATTGATG CCACTAAGAG CGATAATGG	120
CTATACACTA GCGCTTGGA TTTGAGCGGC GTTACAAACA AGGTCAATAT TAACACGCT	180
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT AGTGGTTAC	240
ACCCGTGTT AGAGTTTGG GCAATACACT ATTTTGGCG AAAATATAGG CGATCAATCG	300
CGCATTGGTG TCGTTAGTTT GCAAACTGGC TATAGCCCGG CCTATTCTGG GGGCGTTACT	360
TT	362

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

GTGGATGCC	ATACGATCAA	TTTTAATGGC	AATATGTATT	TGGGAAGATT	TACGCATT	60
AAAGTGAATG	GTCATACAGC	CAATTTAAA	GATATTGATG	CCAGCAAGGG	TAGAAATGGT	120
ATCGACACCA	CCATTTGGA	TTTAGCGGC	GTTACAAACA	AGGTCAATAT	CAACAAGCTC	180
ACCACAGCTG	CCACTAATGC	GGCCATTAAA	AATTTGACA	TTAAGGAATT	GGTTGTTACA	240
ACCAATGTTT	TGAGTGTGGG	GAAATACACT	GATTTACCG	AAGATATAGG	CGATCAATCC	300
CGCATTGGTA	TCGTGCGTTT	GCAAATGGGA	TATAGCCCGG	CCTATTCTGG	GGGCGTTACT	360
TT						362

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

GTGGATGCC	ATACGATCAA	TTTTAATGGC	AATATGTATT	TGGGAAGATT	CACGCATT	60
AAAGTGAATG	GTCATACAGC	CAATTTAAA	GATATTGATG	CCAGCAAGGG	TAGAAATGGT	120

ATCGACACCA CCATTTGGA TTTAGCGGC GTTACAAACA AGGTCAATAT CAACAAGCTC 180  
ACCAACAGCTG CCACTAATGC GGCCATTAAA AATTTGACA TTAAGGAATT GGTTGTTACA 240  
ACCAATGTTT TGAGTGTGGG GAAATACACT GATTTACCG AAGATATAGG CGATCAATCC 300  
CGCATTGGTA TCGTTAGTTT GCAAACGGGA TATAGCCCGG CCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 362 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

GTGGATGCC ATACGATCAA TTTTAATGGC AACATGTATT TGGGAAGATT CACGCATT 60  
AAAGTGAATG GCCATACAGC CAATTTAAA GATATTGATG CCAGCAAGGG TAGAAATGGT 120  
ATCGACACCA CTATTTGGA TTTAGCGGC GTTACAGACA AAGTCAATAT CAACAAGCTC 180  
ACTACAGCTG CCACTAATGT GTCCATTAAA AACTTGACA TTAAGGAATT GGTTGTTACA 240  
ACCAATGTTT TGAGTGTGGG GAAATACACT GATTTACCG AAGATATAGG CGATCAATCG 300  
CACATTGGTG TCGTTAGTTT GCAAACGTGGC TATAGCCCGG TCTATTCTGG GGGCGTTACT 360  
TT 362

(2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO; 238:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG CTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGTGAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 239:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 240:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGATAAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGAAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG ATCAATCTT TCTGGGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 241:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GCAATGGTGG TTTAACACC	60
TTAGATTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGC	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 242:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGCGTTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTTG TTAAGACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGTG TAAATT	288

(2) INFORMATION FOR SEQ ID NO: 243:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACAA CAACATTAAT GAATTGGTGG TAAACACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CAGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 244:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGATTAA TGGGGTGAGT	180
GTGGGGGAAT ACACTTATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

GTGGATGCC ATACAGCTAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTCA GTGGCGTTAC AAACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGAAAT ACACTAATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG CTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATTAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TTAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTGAC AGGTATAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGTGAGC	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 253:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

GTGGATGGTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAAGGTC AATATCAACA AGCTCATAAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGTGAGT	180
GTGGGGAAT ACACTTATTT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 254:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGTGTGAGT	180
GTGGGGGAAT ACACCTATT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATCAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGGAAT ACACCTATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACCAG GTCAATCTT TCTGGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGGTTG TTAAAACCAA TGGGGTAAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCACAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGATGAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 259:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGATTG TTAAAACCAA TGGGGTGAGC	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 261:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

GTGGATGCTC ATACAGCTAA TTTAAAGGT ATTGATACGG GTAATGGTGG TTTAACACC	60
TTGGATTTA GTGGCGTTAC AGACAAAGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 262:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

GTGGATGCTC ATACAGCTAA TTTTAAAGGT ATTGATACGG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC AATATCAACA AGCTCATTAC GGCTTCCACT	120
AATGTAGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAGACCAA TGGGGTGAGT	180
GTGGGGAAAT ACACTCATT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTT TCTGGGGTG TCAAATT	288

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

GTGGATGGTC ATACAGCTAA TTTAAAGGT ATTGATAACGG GTAATGGTGG TTTCCACACC	60
TTAGATTTA GTGGTGTAC AGGTAAGGTC CATATCCACA AGCTCATTAC GGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CCACATTAAT GAATTGATTG GTAAAACCAA TGGGATAAGT	180
GTGGGGAAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTTT TCTGGGGGTG TCAAATTT	288

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGAAAT ACACAAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACCAAG GTCAATCTAT TTTGGGGGTG TTAAATTA	288

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAATT	288

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATT TAGCGAAGAT ATAGGCAATC AATCGCACAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTT	288

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

GCGAGACGTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAGT GAATTGGTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATT TAGCGGAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

GTGGATGCC ATACGGTCAA TTTTAAAGGT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGATTTCA GTGGTGTAC AGACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGGTGG TTAAAACCAA TGGTATAAGC	180
GTGGGGGAAT ACACTCATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAATACCGTG	240

CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGCGGTG TTAAATT

288

(2) INFORMATION FOR SEQ ID NO: 270:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACCAAG GTCAATCTAT TCTGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 271:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AACTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATT TAGCGAAGAT ATAGGCAAGTC AATCGCGCAT CAATACCGTG	240

CGTTTAGAAA CTGGCACCAAG GTCAATCTAT TCTGGGGGTG TTAAGTTT

288

(2) INFORMATION FOR SEQ ID NO: 272:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACTAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAATACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 273:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:

GCGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGATTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180

GTGGGGGAAT ACACAAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 274:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCG TTAAAAACTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATTT TAGCGAAGAT ATAGGCAATC AATCGCGCAT CAACACCGTG	240
CGTTTGGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 275:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:

GCGAGCGCTC ATACGGTCAA TTTTAAAGAT ATTGATACTG GTAATGGTGG TTTCAATACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AATATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGGCCA TTAAAAATTT CAACATTAAT GAATTGTTGG TTAAAACCAA TGGGATAAGT	180

GTGGGGGAAT ACACAAATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 276:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

ACGAGCGCTC ATACGGTCAA TTTAAAGAT ATTGATACTG GTAATGGTGG TTTAACACC	60
TTAGACTTTA GTGGTGTAC AAACAAGGTC AACATCAACA AGCTCATTAC AGCTTCCACT	120
AATGTGCCA TTAAAAACTT CAACATTAAT GAGTTGTTGG TTAAAACCAA TGGGATAAGT	180
GTGGGGGAAT ACACAAATTT TAGCGAAGAT ATAGGCAGTC AATCGCGCAT CAACACCGTG	240
CGTTTAGAAA CTGGCACTAG GTCAATCTAT TCTGGGGGTG TTAAGTTT	288

(2) INFORMATION FOR SEQ ID NO: 277:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

ATGGAAATAC AACAAACACA C	21
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(2) INFORMATION FOR SEQ ID NO: 278:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:

CTGCTTGAAT GCGCCAAAC

19

(2) INFORMATION FOR SEQ ID NO: 279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:

CACAGCCACT TTCAATAACG A

21

(2) INFORMATION FOR SEQ ID NO: 280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:

CGTCAAAATA ATTCCAAGGG

20